

Notice of Allowability	Application No.	Applicant(s)	
	09/938,196	PORTER ET AL.	
	Examiner Thomas H. Stevens	Art Unit 2123	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS**. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to the amendment filed 07/18/2006.

2. The allowed claim(s) is/are 1-93.

3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some* c) None of the:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 1) hereto or 2) to Paper No./Mail Date _____.

(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of
 Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
 Paper No./Mail Date 9/24/01
- 4. Examiner's Comment Regarding Requirement for Deposit
 of Biological Material
- 5. Notice of Informal Patent Application (PTO-152)
- 6. Interview Summary (PTO-413),
 Paper No./Mail Date _____.
- 7. Examiner's Amendment/Comment
- 8. Examiner's Statement of Reasons for Allowance
- 9. Other _____.

DETAILED ACTION

1. Claims 1-93 were examined.
2. Claims 94-96 are cancelled and 97-100 was previously cancelled.

Allowable Subject Matter

3. Claims 1-93 are allowable.

While Porter teaches (claims 1 and 36) a method of using a computer for calculating an at least one effect of a plurality of environmental conditions on an animal, using said computer to perform the following steps comprising: providing a data set of the plurality of environmental conditions for an at least one locality; Grant teaches (claims 1 and 36) during an at least one time interval; providing a data set of characteristics of the animal ; translating the set of environmental conditions data into a set of microclimate conditions experienced by the animal, by running a microclimate model to generate values for the set of microclimate conditions using the set of environmental conditions data and the set of animal characteristics data, the microclimate model comprising a solar radiation model to enable the calculation of an input of solar radiation when the sun is above the horizon and when the sun is below the horizon; and, solving for a set of animal conditions by running an animal model using the set of microclimate conditions and the set of animal characteristics, for each of the at least one time intervals at each of the at least one localities, the set of animal conditions comprising an amount of discretionary energy and a total activity time of the animal; Porter teaches (claims 36 and 70) calculating an amount of metabolic heat

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generation required to maintain a core temperature of the animal and noting an activity state of the animal by performing a heat balance analysis, the activity state being chosen from the group consisting of active and non-active by performing a mass balance analysis using the calculated amount of metabolic heat; Porter and Grant teach (claim 70) a method of using a computer at least one effect of a plurality of microclimate conditions, none of these references, taken either alone or in combination, with the prior art of record disclose:

(claims 1,36 and 70) “solving for a set of animal conditions...The set of animal an amount of discretionary water available to the animal,”

(claim 36 and 70) “calculating the amount of discretionary energy available...generation performing the mass balance analysis comprising running a gut model coupled to a lung model,”

in combination with the remaining elements and features of the claimed invention. It is for these reasons that the applicants' invention defines over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance”.

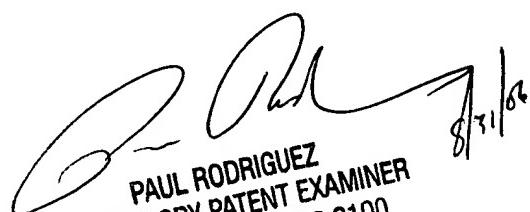
Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Tom Stevens whose telephone number is 571-272-3715, Monday-Friday (8:00 am- 4:30 pm EST).

If attempts to reach the examiner by telephone are unsuccessful, please contact examiner's supervisor Mr. Paul Rodriguez 571-272-3753. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>.. Answers to questions regarding access to the Private PAIR system, contact the Electronic Business Center (EBC) (toll-free (866-217-9197)).

August 25, 2006



PAUL RODRIGUEZ
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100
8/21/06

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